

REMARKS

Claims 1-15 have been amended to place the claims in accordance with U.S. patent practice, and to reflect amendments made in international application PCT/SE00/02263, of which the instant application is the U.S. national stage application.

New claim 16 is directed to an embodiment of the invention deleted from amended claim 15. Support for new claim 16 is found in the specification on page 20, lines 3-4.

No new matter is introduced by any of the amendments herein.

Upon entry of this Preliminary Amendment, claims 1-16 are pending. Applicant respectfully submits that claims 1-16 are directed to patentable subject matter. Accordingly, Applicant requests allowance of the claims.

Authorization is hereby given to charge any fee in connection with this communication to Deposit Account No. 23-1703.

Dated: June 5, 2002

Respectfully submitted,

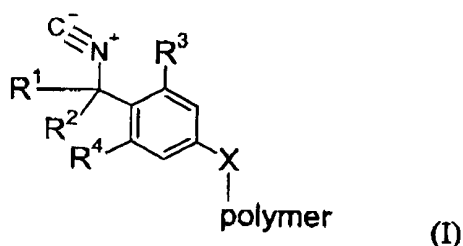
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Claims 1-15 -Version With Markings to Show Changes Made:

1. A functionalized polymeric reagent for solution or [and] solid-phase synthesis comprising a polymer and a linker moiety, wherein [characterized in that] the linker moiety comprises an acid labile isonitrile moiety and is cleavable at the CN functionality of the isonitrile.
2. A functionalized polymeric reagent according to claim 1 having [for solution and solid-phase synthesis of] Formula I



wherein:

X is carbon, oxygen, a PEG-chain, or a $-(CH_2)_n-CONH-$ group; [.]

R^1 is hydrogen, phenyl, or a substituted phenyl group; [.]

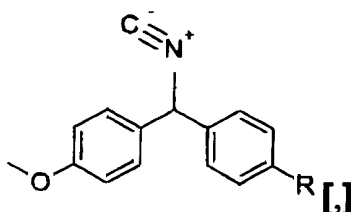
R^2 is hydrogen, phenyl, or a substituted phenyl group; [.]

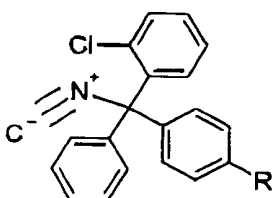
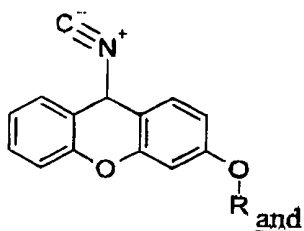
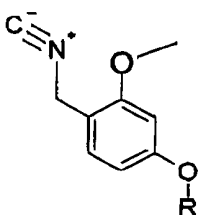
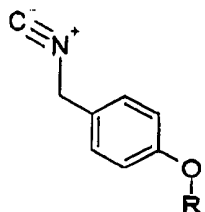
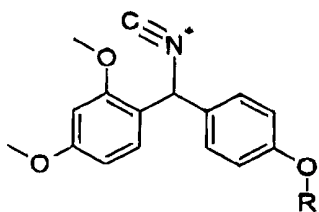
R^3 is hydrogen, C_1-C_6 alkyl, C_1-C_6 alkoxy, or phenoxy; [.]

R^4 is hydrogen, C_1-C_6 alkyl, C_1-C_6 alkoxy, or phenoxy; [.] and

n is an integer from 1 to 4.

3. The functionalized polymeric reagent according to claim 1 having a structure selected from the group consisting of: [claims 1 or 2 being,]



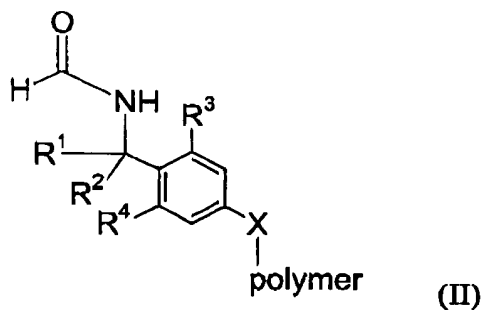


wherein R is a polymer which is attached to the linker moiety either (i) directly or (ii) [directly attached to the linker or] through a $-(CH_2)_n-CONH-$ group [.] or a PEG-chain.

4. The functionalized polymeric reagent according to claim 1, wherein [any of claims 1-3, characterized in that] the polymer is a soluble polymer.
5. The functionalized polymeric reagent according to claim 1, wherein [any of claims 1-3, characterized in that] the polymer is an insoluble polymer.

6. A method for preparing a functionalized polymeric reagent according to any one of claims 1-5, comprising the steps of: [.]
 - a) reacting a [the] polymeric support with a formylating reagent to obtain a formamido group; and
 - b) converting the [thereby formed] formamido group into an isonitrile moiety.
7. The method according to claim 6, wherein [characterized in that] the formylating reagent used in step a) is 2,4,5-trichlorophenyl formate.
8. The method according to claim 6, wherein [and 7, characterized in that the reagent used in step b) is] carbon tetrachloride / triphenylphosphine in the presence of triethylamine is used to convert the formamido group into the isonitrile moiety.
9. A method for preparing an organic compound by solution or [and] solid-phase synthesis comprising the steps of:
 - a) immobilizing a substrate compound to the isonitrile moiety of the functionalized polymeric reagent according to any one of claims 1-5; [claims 1-4]
 - b) performing at least one subsequent [further] reaction step; [.] and
 - c) cleaving the compound from the polymeric reagent [support] by acid treatment.
10. The method according to claim 9, further comprising a subsequent [an additional] reaction step after [the] cleavage from the polymeric reagent [support].
11. The method according to claim 9, wherein [characterized in that the method is performed with] a plurality of substrate compounds, or [and/or] plurality of subsequent [further] reaction steps, or both, is used to obtain [to give] a library of organic compounds.
12. The method according to claim 9, wherein [characterized in that] at least one of the reaction steps is a multicomponent reaction.
13. A kit comprising a container of a functionalized polymeric reagent according to any one of claims 1-5 [claims 1-4].

14. A compound comprising a polymer and a linker moiety and having [Intermediate compounds of] Formula II



wherein:

X is carbon, oxygen, a PEG-chain, or a $-(CH_2)_n-CONH-$ group; [.]

R^1 is hydrogen, phenyl, or a substituted phenyl group; [.]

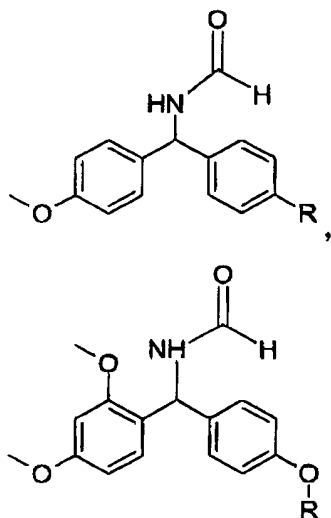
R^2 is hydrogen, phenyl, or a substituted phenyl group; [.]

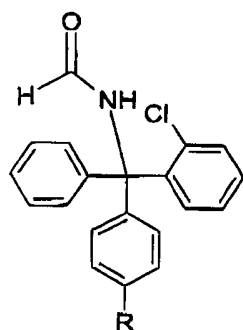
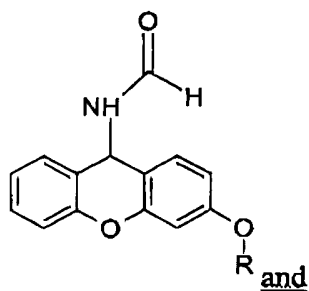
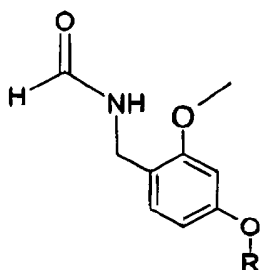
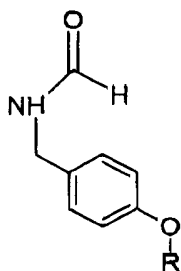
R^3 is hydrogen, C_1-C_6 alkyl, C_1-C_6 alkoxy, or phenoxy; [.]

R^4 is hydrogen, C_1-C_6 alkyl, C_1-C_6 alkoxy, or phenoxy; [.] and

n is an integer from 1 to 4.

15. A compound [Compounds] according to claim 14 [13] having a structure selected from the group consisting of: [being]





wherein [.] R is a polymer which is attached to the linker moiety either (i) directly or (ii)
 [represents the polymeric support either directly attached to the linker or] through a spacer
 moiety [., such as a PEG-chain or a $-(CH_2)_n-CONH-$ group].